

PERMEABILITY FACTORS™

OPTIMIZE

GASTROINTESTINAL HEALTH*

Internal and external factors can challenge the structure and function of the layers of the gastrointestinal tract. Permeability Factors dietary supplement provides clinically-studied nutrients, phospholipids and essential fatty acids that offer nutritional support to promote healthy balance of microflora in the GI tract and support transport of nutrients across the intestinal membranes.*

Widely used by naturopathic physicians for more than 10 years, the synergistic combination of ingredients in Permeability Factors supports healthy intestinal permeability and optimal gastrointestinal function.*

THE INGREDIENTS FOUND IN PERMEABILITY FACTORS PROMOTE HEALTHY NUTRIENT ABSORPTION AND FORTIFY IMMUNE DEFENSES.*

VITAMIN E

- Helps stabilize cellular membranes*
- Enhances immune system*
- Helps protect cell membranes from oxidative damage*

NAG (N-ACETYL D-GLUCOSAMINE)

- Supports a healthy balance of microflora*
- Plays a key role in production of intestinal mucosa*
- Supports the body's natural anti-inflammatory response*

GAMMA-ORYZANOL

- Maintains healthy acid balance*

L-GLUTAMINE

- Protects the integrity of intestinal mucosa*
- Restores healthy intestinal barrier function and permeability*

GAMMA-LINOLENIC ACID (GLA)

- Supports the body's natural anti-inflammatory response*
- Enhances healthy permeability of intestinal cells*
- Supports healthy intestinal barrier function*

PHOSPHATIDYLCHOLINE

- Promotes healthy nutrient transport*
- Supports the body's natural anti-inflammatory response*
(In one clinical trial 80 percent of study participants noted significant improvement**22)



GLUTEN-FREE
FORMULA



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*THIS STATEMENT HAS NOT BEEN EVALUATED BY THE FOOD AND DRUG ADMINISTRATION. THIS PRODUCT IS NOT INTENDED TO DIAGNOSE, TREAT, CURE, OR PREVENT ANY DISEASE.

Permeability Factors™ Supplement Facts

Serving Size 2 Softgels

Servings per container 45

Amount per 2 Softgels		%DV**
Calories	15	
Calories from Fat	10	
Total Fat	1 g	2%**
Vitamin E (as d-alpha tocopheryl acetate)	11 IU	37%
L-Glutamine	500mg	***
NAG (N-Acetyl D-Glucosamine) (shrimp shells)	250mg	***
Gamma-Linolenic Acid (as borage seed oil)	133mg	***
Gamma Oryzanol (from rice bran)	66 mg	***
Phosphatidylcholine (from soy lecithin)	56 mg	***

**Percent Daily Values (DV) are based on a 2,000 calorie diet.

***Daily Value not established.

Other ingredients: gelatin, safflower oil, glycerin, beeswax, titanium dioxide color, caramel color, and soybean oil.

Caution: If pregnant, nursing, or taking prescription drugs, consult your healthcare practitioner prior to use.

Contains no salt, yeast, wheat, gluten, corn, dairy products, artificial flavoring, or preservatives. All colors used are from natural sources.

Recommendations: Take 1 or 2 softgels three times daily, or as directed by your healthcare practitioner.

Phosphatidylcholine is a major component of cellular membranes.* Research has shown that supplementation protects and restores healthy gastrointestinal mucosa by strengthening the mucous-phospholipid layer.* Because of its unique structure, phosphatidylcholine maintains not only the strength, but also the fluidity of membranes, which is important for healthy nutrient transport.*¹⁹ Studies have also shown that phosphatidylcholine plays a role in neutralizing free radicals and in supporting the body's natural anti-inflammatory response in the GI tract.*^{20,21} In fact, in one clinical trial, 80 percent of participants noted significant improvement following supplementation.*²²

Conclusion

By preserving and strengthening intestinal mucosal and membrane integrity, Permeability Factors™ dietary supplement promotes healthy nutrient absorption and utilization for improved gastrointestinal health.*

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mucosa plays a critical role in balancing the body's natural anti-inflammatory response.*¹¹ NAG has also been shown to support a healthy balance of microflora throughout the intestines.*¹²

Gamma-Linolenic Acid (GLA) supports the body's natural anti-inflammatory response.* Derived from borage seed oil, gamma-linolenic acid is a well known omega-6 fatty acid. It is a direct precursor for the production of anti-inflammatory prostaglandins, especially prostaglandin E-1 (PGE-1).* Due to its ability to enhance the body's natural anti-inflammatory response and its incorporation into cell wall membranes, GLA has been shown to support healthy gut barrier function.*^{13,14} One study found that administration enhanced healthy permeability of intestinal cells 8.7 fold.*¹⁵

Gamma-Oryzanol protects GI mucosa by maintaining a healthy acid balance.* It is obtained from rice bran and contains ferulic acid and phytosterols. Ferulic acid is a potent antioxidant, which also supports the body's anti-inflammatory response.* As a free-radical scavenger, it protects critical cellular molecules from oxidative stress and preserves the physiological integrity of cells exposed to stress.*¹⁶ Gamma-oryzanol has been shown to support the gastrointestinal tract and reduce symptoms of occasional indigestion.* In laboratory studies, gamma-oryzanol and ferulic acid have been shown to support the lining of the stomach by modulating gastric secretions and regulating gastrointestinal motility.*^{17,18}

Phosphatidylcholine is a phospholipid that strengthens intestinal cell membranes.*